

## ABSTRACT

An enhanced, diploid pollenizer watermelon plant and method used to maximize the yield of triploid seedless watermelons per area. The enhanced pollenizer watermelon plant of the invention is either a hybrid variety, an open-pollinated variety or a synthetic variety, that exhibits the characteristics of lacy vine, small leaves, prolific male flowers, small fruit with a brittle rind that splits when the fruit is overripe or breaks when relatively small physical forces are applied. The watermelon plant of the invention is also characterized by extended flowering duration, thereby increasing the number of triploid watermelon flowers that are pollinated and set fruit. The method for producing a seedless watermelon fruit, includes the steps of providing a pollenizer diploid watermelon plant, extending the duration of flowering of the pollenizer plant while reducing the number of such plants needed to pollinize the same number of triploid watermelon plants, and maximizing dispersal of the pollenizer watermelon plant throughout the field of triploid watermelon plants.